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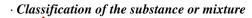
1 Identification

- · Product identifier
- Trade name: Phenolphthalein 1% w/v in 50% Denatured Alcohol
- Article number: 6650
- · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536

USA 800-256-2586

- · Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- · Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

2 Hazard(s) identification



GHS02 Flame

Flammable Liquids 2 H225 Highly flammable liquid and vapor.



Germ Cell Mutagenicity 2 H341 Suspected of causing genetic defects. Carcinogenicity 1B H350 May cause cancer.

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.

· Label elements

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms



· Signal word Danger

- · Hazard-determining components of labeling: *Phenolphthalein*
- · Hazard statements Highly flammable liquid and vapor. Suspected of causing genetic defects. May cause cancer.



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	(Contd. of page 1)
Suspected of damaging fertility or the unborn child.	(Contu. of page 1)
· Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Keep container tightly closed.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
IF exposed or concerned: Get medical advice/attention.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation	<i>s</i> .
· Classification system:	
· NFPA ratings (scale 0 - 4)	
$\begin{array}{c} \textbf{Health} = 1\\ Fire = 3\\ Reactivity = 0 \end{array}$	
HMIS-ratings (scale 0 - 4)	
HEALTH1Health = 1FIRE3Fire = 3REACTIVITY0Reactivity = 0	
· Other hazards	
· Results of PBT and vPvB assessment	
• PBT: Not applicable.	
• vPvB : Not applicable.	
······································	
3 Composition/information on ingredients	
• Chemical characterization: Mixtures • Description: Mixture of the substances listed below with nonhazardous additions.	
· Dangerous components:	

CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	41.778%			
CAS: 67-56-1 Methanol	2.205%			
CAS: 77-09-8 Phenolphthalein	1.115%			
· Table of Nonhazardous Ingredients				
CAS: 7732-18-5 Water	54.902%			

4 First-aid measures

· Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.

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w/v in 50% Denatured Alcohol

(Contd. of page 2)

- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

	autions, protective equipment and emergency procedures	
	ve equipment. Keep unprotected persons away.	
	al precautions:	
Dilute with pl	eniy of water. to enter sewers/ surface or ground water.	
	material for containment and cleaning up:	
	iquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	uninated material as waste according to section 13.	
	ate ventilation.	
· Reference to		
	for information on safe handling.	
See Section 8	for information on personal protection equipment.	
	3 for disposal information.	
· Protective Ac	tion Criteria for Chemicals	
· PAC-1:		
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	1,800 ppm
CAS: 67-56-1	Methanol	530 ppm
CAS: 77-09-8	Phenolphthalein	4 mg/m ³
· PAC-2:	·	
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	3300* ppm
CAS: 67-56-1	Methanol	2,100 ppm
CAS: 77-09-8	Phenolphthalein	1.4 ppm
· PAC-3:	·	·
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	15000* ppm
	Mathanal	7200* ppm
CAS: 67-56-1	memanoi	1200 ppm

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w/v in 50% Denatured Alcohol

(Contd. of page 3)

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:
- The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof

- PEL Long-term value: 1900 mg/m³, 1000 ppm
- REL Long-term value: 1900 mg/m³, 1000 ppm
- *TLV Short-term value: 1000 ppm* A3

CAS: 67-56-1 Methanol

- PEL Long-term value: 260 mg/m³, 200 ppm
- REL Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
- TLV Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEIc

· Ingredients with biological limit values:

CAS: 67-56-1 Methanol

BEI 15 mg/L

LD50 Intraperitoneal: urine Time: end of shift LD50: Methanol (background, nonspecific)

• Additional information: The lists that were valid during the creation were used as basis.

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Trade name: Phenolphthalein 1% w/v in 50% Denatured Alcohol

(Contd. of page 4)

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



*

Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and General Information Appearance:	chemical properties	
Form:	Liquid	
Color:	Clear to pale pink	
Odor:	Alcohol-like	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	64 °C (147.2 °F)	
Flash point:	11 °C (51.8 °F)	

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Trade name:	Phenolphthalein 1%
	w/v in 50% Denatured Alcohol

	(Contd. of page 5
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	425 °C (797 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	3.5 Vol %
Upper:	19 Vol %
Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
Density at 20 °C (68 °F):	0.8969 g/cm³ (7.48463 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wate	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	44.0 %
Water:	54.9 %
VOC content:	43.98 %
	394.5 g/l / 3.29 lb/gal
Solids content:	42.9 %
Other information	No further relevant information available.

10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

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Trade name: Phenolphthalein 1%

w/v in 50% Denatured Alcohol

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· LD/LC30 V	alues tha [,]	t are relevant for classification:	
ATE (Acut	e Toxicity	Estimate)	
Oral	LD50	4,535 mg/kg	
Dermal	LD50	13,606 mg/kg	
Inhalative	LC50/4h	136 mg/l	
	t: No irrita No irrita No ser	ant effect.	
· Carcinoger	nic catego	he following dangers according to internally approved calcu pries Agency for Research on Cancer)	uation methods for preparation
CAS: 64-12	7-5 Ethyl	Alcohol, Absolute 200 Proof	1
CAS: 77-09	9-8 Pheno	olphthalein	2
· NTP (Natio	onal Toxi	cology Program)	<u>`</u>
CAS: 77-09	9-8 Pheno	olphthalein	
· OSHA-Ca	(Occupat	ional Safety & Health Administration)	
None of the	e ingredie	nts is listed.	

- · Behavior in environmental systems:
- Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

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Trade name: Phenolphthalein 1%

w/v in 50% Denatured Alcohol

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13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name DOT IMDG, IATA	Flammable liquids, n.o.s. (Ethanol, Methanol) FLAMMABLE LIQUID, N.O.S. (Ethanol, Methanol)
Transport hazard class(es)	
DOT	
Class	3 Flammable liquids
Label	3
Class Label	3 Flammable liquids 3
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler code). EMS Number: Stowage Category	Warning: Flammable liquids ; 33 F-E, <u>S-E</u> B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

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Trade name: Phenolphthalein 1% w/v in 50% Denatured Alcohol

	(Contd. of page 8)
IMDG · Limited quantities (LQ)	
\cdot Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL, METHANOL), 3, II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· Sara

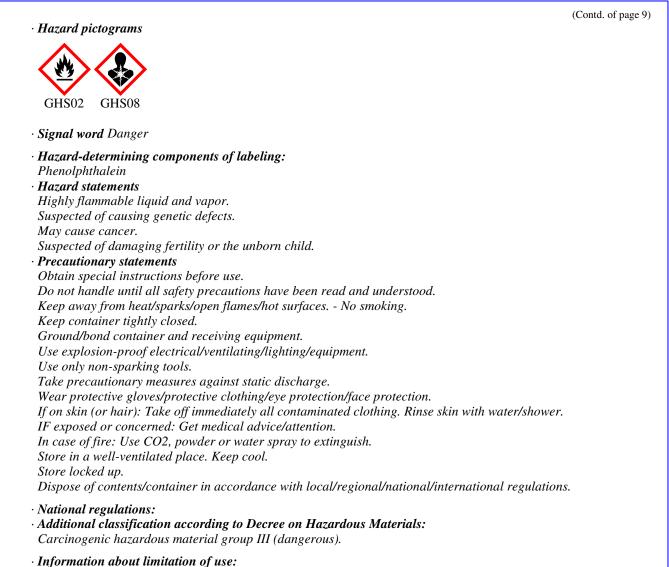
None of the ingredients is listed. Section 313 (Specific toxic chemical listings): CAS: 67-56-1 Methanol CAS: 77-09-8 Phenolphthalein FSCA (Toxic Substances Control Act): Water ACT Ethyl Alcohol, Absolute 200 Proof ACT Methanol ACT Methanol ACT Phenolphthalein CAS: 67-56-1 Methanol CAS: 67-56-1 Methanol Chemicals known to cause cancer: CAS: 77-09-8 Phenolphthalein Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause developmental toxicity: CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicity: CAS: 67-56-1 Methanol Chemicals known to cause developmental toxicit	
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CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof CAS: 67-56-1 Methanol Carcinogenic categories	
CAS: 67-56-1 Methanol Carcinogenic categories	
Carcinogenic categories	
TPA (Environmental Protection Agency)	
21 A (Environmental 1 lotection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value)	
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	АЗ
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 10)

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Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

• Contact: Date of Preparation / Last Revision:

- Date of preparation / last revision Revision 0.1, 06/18/2024: Reviewed SDS for accuracy. MH/STN 06/18/2024 / 1.0
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods

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	(Contd. of page 10)
DOT: US Department of Transportation	
ATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
VFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
OC: Volatile Organic Compounds (USA, EU)	
C50: Lethal concentration, 50 percent	
D50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
PvB: very Persistent and very Bioaccumulative	
VIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
LV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
BEI: Biological Exposure Limit	
Flammable Liquids 2: Flammable liquids – Category 2	
Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2	
Carcinogenicity 1B: Carcinogenicity – Category 1B	
Toxic to Reproduction 2: Reproductive toxicity – Category 2	
⁵ Data compared to the previous version altered.	
	US